

15 oct



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D4518-3
Job Sheet 184020



Part No: D4518-3

Job Qty: 50 ea

Part Name: Lock Barrel Spring



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 10/1/18

Job Tracking No:

Due Date: 10/12/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV A IPP REV:A 12.01.11 new issue DD verf:EC

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	50 pcs		10/12/18	0.00	0.00	Purchasing		OCT 24 2018
110	Packaging	50 pcs		10/12/18	0.00	0.00	Packaging2		OCT 24 2018
120	QC	50 pcs		10/12/18	0.00	0.00	QC6		OCT 25 2018
130	Packaging	50 pcs		10/12/18	0.00	0.00	Packaging3-2		OCT 25 2018
140	QC21-SA	50 Ea		10/12/18	0.00	0.00	QC21		OCT 25 2018

Part Op 110 - Receive & Inspect for Damage & Mat'l Certs
Descriptions: 120 - QC6- All purchased or subcontracted products
130 - Identify as per dwg & Stock Location:
140 - QC21- Final Inspection - Work Order Release

POO 41218

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D4518-3P	Lock Barrel Spring	50 Ea (1 ea)	100-Purchasing	5121139

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	D4518-3P	50	0	0

Part Specifications

Specifications could not be found.



Container No: S121146



Part: D4518-3

Job No: 184020

Serial No/Batch: S121146

Revision:

Inspector:

Exp Date:

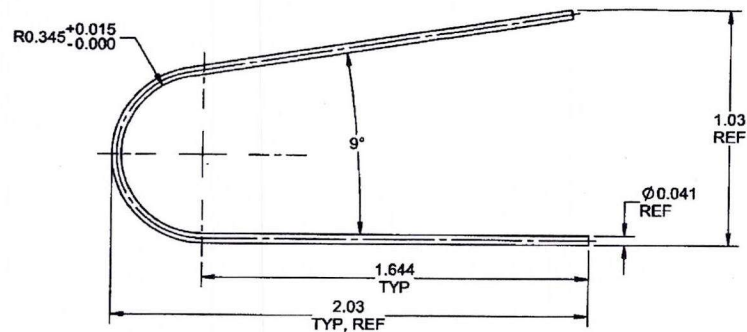
Instructions: Various STC's

Date: 10/24/18

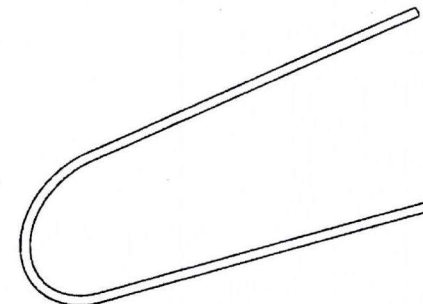
Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Plex 10/2/18 8:14 AM dart.lavoie.chantal

SPECIFICATION CONTROL DRAWING



D4518-3 LOCK BARREL SPRING



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 189020 MJS
18H-01

RELEASE
2012-07-10

NOTES:

- 1) MATERIAL: 301/304 STAINLESS STEEL SPRING WIRE, $\varnothing 0.041$, PER ASTM A666/A313
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: WITH DART P/N "D4518-3" AND BATCH NUMBER "BXXXXX" PER DART QSI 044 6.6 (REMOVABLE TAG)
- 7) WEIGHT: LESS THAN 0.01 lbs

DESIGN		DART AEROSPACE LTD
DRAWN		HAWKESBURY, ONTARIO, CANADA
CHECKED		DRAWING NO. D4518 REV. A
MFG. APPR.		SHEET 2 OF 2
APPROVED		TITLE SPRING, LATCH SCALE NTS
DE APPR.		
DATE	11.12.05	

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NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT
WRITTEN PERMISSION FROM DART AEROSPACE LTD.

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO041218

Supplier: VIC002-VC
Victory Spring Ltd.
3810 - 51 Ave.
Edmonton
AB
T6B 3T5 Canada
Phone: 780 442 4020
Fax: 780 466 8000

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO041218
PO Date: 10/2/18
Due Date: 10/18/18
**Purchase Order
Revision:**
Revision Date:
Ship-To Contact: Tsimiklis, ChrisoulaPhone:

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

E-MAILED
OCT 02 2018

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	184020	D4518-3P		Lock Barrel Spring : Various STC's	Firmed	-	10/18/18	50 Ea	0 Ea	50 Ea	\$4.60/Ea	\$230.00
50 x OCT 24 2018											Grand Total: \$230.00	

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9-89

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 10/2/18 11:14 AM dart.tsimiklis.chrisoula



3810 - 51 Ave
Edmonton, AB T6B 3T5
t + 780 442 4020
e + accounts@victoryspring.ca

PACKING SLIP

Packing Slip: 42250
Date: Oct 23, 2018
Order Ref: 41218 ✓

Sold to:

Dart Aerospace Ltd
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7

Ship to:

Dart Aerospace Ltd
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7

~~41218~~

Shipped By:

Shipped Quantity	Backorder Quantity	Unit	Item No.	Description	Price
50	✓	EACH	-	D4518-3P ✓ Lock Barrel Spring	4.60
Comment:					

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CERTIFICATE OF CONFORMANCE

REPORT FOR : Dart Aerospace Ltd.	DATE: 10/23/2018
PART/DRAWING #: D4518-3 Lock Barrel Spring ✓	PO # 41218 ✓
DESCR: Wire Form	QUANTITY: 50 ✓

VICTORY SPRING CERTIFIES BY THIS DOCUMENT THAT ALL OPERATIONS ARE DONE ACCORDING TO
DRAWINGS AND SPECIFICATIONS

CHARACTERISTIC	SPECIFIED	MEASURED	NOTES
Material type	301/304 Stainless	Stainless 302	
Material diameter	0.041"	0.041"	
Radius	0.345"	0.356"	
Overall Length	2.03"	1.995-2.06"	
Angle	9 deg	8-11 deg	
Overall Height	1.03"	1.014-1.122"	

Mill Certificate attached: Yes
Material Heat Number: SO5114

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9-89

Inspected by: Jeremy Burrowes - QA

Jeremy Burrowes

MATERIAL CERTIFICATION

REPORT FOR: Dart Aerospace	DATE: 10/23/2018																						
PART/DRAWING #: D4518-3 Lock Barrel Spring	PO # 41218																						
SPRING DESCRIPTION: Wire Form	QUANTITY: 50																						
MATERIAL GRADE: T302 Stainless Steel Wire Spring ASTM-313-03																							
PROPERTIES: <table> <thead> <tr> <th><u>Chemical</u></th><th><u>Physical</u></th></tr> </thead> <tbody> <tr> <td>Carbon: (C) 0.076</td><td>Size: 0.041"</td></tr> <tr> <td>Chromium: (Cr) 18.242</td><td></td></tr> <tr> <td>Copper: (Cu) 0.259</td><td>Tensile: 293,000</td></tr> <tr> <td>Manganese: (Mn) 1.237</td><td></td></tr> <tr> <td>Molybdenum: (Mo) 0.149</td><td></td></tr> <tr> <td>Nickel: (Ni) 8.039</td><td></td></tr> <tr> <td>Nitrogen: (N) 0.045</td><td>Heat # SO5114</td></tr> <tr> <td>Phosphorus: (P) 0.029</td><td></td></tr> <tr> <td>Silicon: (Si) 0.472</td><td></td></tr> <tr> <td>Sulphur: (S) 0.0037</td><td></td></tr> </tbody> </table> Mill Source: DSR Origin Country: Korea		<u>Chemical</u>	<u>Physical</u>	Carbon: (C) 0.076	Size: 0.041"	Chromium: (Cr) 18.242		Copper: (Cu) 0.259	Tensile: 293,000	Manganese: (Mn) 1.237		Molybdenum: (Mo) 0.149		Nickel: (Ni) 8.039		Nitrogen: (N) 0.045	Heat # SO5114	Phosphorus: (P) 0.029		Silicon: (Si) 0.472		Sulphur: (S) 0.0037	
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Certified by: Jeremy Burrowes

Victory Spring Ltd. certifies this to be a true & accurate copy of the original contained in the company records.